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17. ABSTRACT (MAX. 250 WORDS)

Self-evaluation of graduate school as regards: Objectives, evidence of stability, finance, plant, materials and equipment, library, records and reports, curriculum, degree requirements faculty, instructions, administration, selection of students, advanced degrees conferred, and graduate and research assistantships and fellowships.

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Self Evaluation Report III

Graduate School

January 1960

OREGON STATE COLLEGE
Corvallis, Oregon

ED000416

IV-20

S E L F E V A L U A T I O N R E P O R T III

GRADUATE SCHOOL

Prepared for the

Commission on Higher Schools,

Northwest Association of Secondary and

Higher Schools

January 1960

by
Dean Henry P. Hansen
Graduate School
OREGON STATE COLLEGE
Corvallis, Oregon

GRADUATE SCHOOL
OREGON STATE COLLEGE

SELF EVALUATION REPORT III

A. Objectives

1. The basic aims and objectives of graduate education are to train and develop students in the disciplines of research, scholarship, and communication. Research is the discovery or rediscovery of knowledge; scholarship is the organization, interpretation, criticism, and evaluation of knowledge; communication is the dissemination of knowledge and ideas. All of these aims are closely related, and it is difficult to develop in one and not in the others. In fact, some think of research and scholarship as one and the same thing, and certainly those that carry on research in the true spirit, philosophy, and tradition of this endeavor can hardly be other than scholars. Early in the graduate student's career he is expected to read, criticize, evaluate, interpret, integrate, and organize data from the research papers of others in preparation for his own research.

The graduate school, both faculty and students, as a community of scholars also provides, or should provide, an atmosphere of stimulation and encouragement for the pursuit and attainment of scholarship. There can and should be no compromise with the tradition and philosophy that training in research and all that it implies is the primary aim of graduate training toward the Doctor of Philosophy degree. Scholarship should be an outcome of research training, and if it is not attained by one as a graduate student in the dissertation research, it probably will never be reached.

The third function of graduate training, communication, or the ability to instill ideas and concepts in others, is both inherent and acquired. This again involves a command of the fundamental processes, development of which undoubtedly begins practically at birth. While this ability should be well developed upon entrance into the graduate school, this often is not true. The organization, writing, and presentation of the doctoral dissertation should represent the culmination of formal training toward this objective. Aside from the written and spoken word, there are other things concerned with communication. The graduate student should become imbued with a spirit of spontaneous enthusiasm in his research which later will serve to stimulate and inspire others. As a future leader in society he must learn to communicate his concepts and ideas to others, and if they are good, influence others to believe in them.

2. Studies and scrutiny are being made almost constantly concerning improvement and revision of the graduate program to meet the demand of changing conditions, increased enrollments, and new knowledge.

3. These objectives are being carried out steadily to the degree which our resources permit. Each department offering graduate work is constantly adding to its research equipment, facilities, staff, and space.

4.

Library, Museums, and Collections

The Library of Oregon State College has been developed to support graduate work and research in all the subject areas included in the curricula. It contains some 360,000 volumes, classified in the Library of Congress classification scheme and organized for use with a minimum of inconvenience. It adds approximately 14,000 volumes to its holdings each year and receives more than 3,000 journals and periodicals. It has a strong and balanced Science Collection of more than 64,000 volumes and an Engineering and Technology Library of approximately 38,000 volumes. Subject areas of special strength include mathematics, textiles, nutrition, and the history of horticulture. Collections of some distinction are also being built up in biology, food technology, chemistry, plant pathology, physics, mycology, and entomology. Important in the research status of the Library is its designation as a depository for the publications of the U.S. Atomic Energy Commission, the Atomic Energy Establishment of Great Britain, and the Rand Corporation of Santa Monica, Calif. The Publications of the United States Government are also received on deposit and, through exchange, the publications of Agricultural and Engineering Experiment Stations throughout the world are systematically secured. In addition to the book stock the Library has a picture collection of approximately 60,000 pieces and a Map Collection of 52,000 items. In further support of the graduate program the book resources of the entire Oregon State System of Higher Education, totaling 1,250,000 volumes are available to faculty and students through a liberal policy of interlibrary lending.

The Horner Museum of the Oregon Country contains notable collections of historic, scientific, industrial, and artistic interest. Located on the ground floor of the Coliseum, the displays include, for example, the famous Hank Monk stagecoach and many weapons and tools of pioneer Oregon, many mounted birds and animals of the Pacific Northwest, fluorescent minerals and one of the three largest mastodon tusks ever found, trophies of World War I and II, and war implements of savage tribes of South America.

The Entomological Collection contains approximately 220,000 specimens of insects, about 80 percent of them from Oregon, and most of them on pins. The collection includes 4,100 microscope slides and life histories of many economically important insects in 480 glass-topped Ricker mounts. The collection is housed in Agriculture Hall.

The Geological Collections, housed in Education Hall, include minerals, ores, rocks, invertebrate fossils, some vertebrate fossils, and a large number of fossil plants. More than 800 mineral species are arranged according to the Dana classification, and ore samples are arranged according to the Lindgren classification of ores. A paleontological collection in the Paleontology Laboratory supplements the other collections.

The Herbarium housed on the fourth floor of Cordley Hall, contains more than 152,000 named specimens of flowering plants, ferns, mosses, algae, and fungi. A seed collection of 2,800 numbers and 250 photographs of types of Northwest plants add to the usefulness of the Herbarium.

The Natural History Collection includes nearly 34,000 specimens of terrestrial vertebrates and nearly 800 mounts of birds and mammals. Housed in the Natural History Building, the collection includes the Braly Ornithological Collection, the Alex Walker Waterfowl Collection, and the Oregon State Game Commission Collection.

Special Exhibits and Loan Collections are displayed frequently in the Memorial Union, Kidder Hall, the Library, Home Economics Building, and Chemical Engineering Building.

Lectures and Conferences

During the year there are many lectures and conferences which bring in eminent speakers who are leaders in their fields. The annual Condon Lectures sponsored by the State Board of Higher Education on the University and College campuses, and at Portland, present outstanding figures in the fields of natural sciences. Sigma Xi sponsors an annual lecture by a national figure in science and also brings in eminent regional leaders. The College convocations sponsor many speakers in the fields of social sciences, humanities, and politics; also outstanding news commentators. Numerous conferences and regional meetings of groups in many fields offer opportunities for graduate students to meet and hear outstanding persons in their respective disciplines.

The Biology Colloquium

Annually in April Oregon State College holds a Biology Colloquium sponsored by Phi Kappa Phi with the collaboration of Sigma Xi, Phi Sigma, Omicron Nu, Phi Lambda Upsilon, and the departments of biology. A general topic or theme is chosen, and a series of lectures on specialized phases are presented by authorities in their fields. A leader is brought in who is outstanding in one or more areas of the general topic. He presents the overall picture of the colloquium theme, coordinates the several subsidiary topics, and then in a final address integrates the more salient and significant points and features of the several lectures. The purpose of the day-and-a-half meeting is to bring together scientists, teachers, and interested laymen to take part in an informal presentation and discussion of a timely topic in an important field of biology. The Colloquium had its origin in 1939, and each year draws hundreds of people from Oregon and other states. Proceedings are published each year.

Research

Advancement of human knowledge and technical and technological service to the commonwealth are recognized functions of institutions of higher learning. Advancement of knowledge through research at Oregon State College is encouraged and assisted by several institutional agencies, including the General Research Fund, the Science Research Institute, the Agricultural Experiment Station, the Engineering Experiment Station, and the Oregon Forest Research Center. Problems for the government, for industry, or other sponsors, are undertaken on special contract.

Fundamental research at Oregon State College is supported by funds from the departments and schools, the General Research Fund, which is administered by the Graduate Council, and outside agencies. The largest source of funds for basic research is that provided by a great number of outside agencies and foundations.

Adequate facilities and space are available for basic research in all departments and schools. Among the major pieces of equipment for campus-wide research are a Consolidated Engineering Corporation Model 21-401 mass spectrometer for isotope tracer work; a Jerrell-Ash 4.8 meter grating spectrometer for visible and ultraviolet radiation; an RCA Type EMU-2D electron microscope which gives direct magnifications of 20,000 diameters with resolution sufficient for enlargement to 100,000 diameters; a 37-inch cyclotron designed for deuterons and later to be modified for protons; and three large X-ray units. Other pieces of equipment for instruction and research in science include liquid air machine, X-ray diffraction apparatus, infrared spectrometer, spectrophotometers, ultra centrifuges, refrigerated centrifuge, electron diffraction apparatus, 3 analog computers, an AGN 201 nuclear reactor, a Rover gas turbine engine, a liquid metal heat transfer loop, and an ALWAC computer. In addition, shop facilities are adequate for building almost any type of instrument unavailable on the market for experimental research.

Science Research Institute

The Science Research Institute operates within the School of Science. It has three major functions: first to aid in expediting basic research programs and promoting interdisciplinary research; second, to pursue an active research program along the lines of interest and competence of the Institute staff; and third, to assist scientists at Oregon State College in obtaining support for research projects.

Staff members of the Science Research Institute receive joint appointments in the Institute and the appropriate teaching departments. A number of predoctoral assistantships and fellowships are offered each year in the Institute. Research assistants and fellows employed by the Institute also receive appointments in the departments in which their advanced degrees are sought.

Agricultural Experiment Station

The Oregon Agricultural Experiment Station conducts research in conservation and efficient use of the State's natural resources including soil, water, fish, and wildlife; increasing efficiency of production of agricultural commodities; improving, processing, and marketing of agricultural products; testing and developing new crops and new uses for old crops as a means of reducing crop surpluses; collecting and analyzing basic information needed in development of comprehensive agricultural programs and policies.

These functions are performed by research departments and the Forest Research Division at the central station at Corvallis and 13 outlying branch stations and experimental areas located to serve the varying agricultural regions of the State.

Graduate students are employed extensively in the research program as part-time staff members, graduate research assistants and fellows, and student help on an hourly wage basis. Approximately 100 assistantships and fellowships are distributed among the central station research departments and the Forest Research Division.

A limited number of part-time staff positions are available to persons who are qualified by experience in other research organizations to serve as project leaders. These positions usually are established on a basis of from .50 to .75 full time equivalent and the salary rate is based on job responsibility and ability, training, and experience of the applicant.

Excellent opportunities for thesis problems are available among both the applied and basic research projects of the Station.

Facilities and equipment are excellent for graduate research in many fields of crop, forest, and animal production, as well as in such fields as wildlife management, fisheries, human nutrition, food technology, and marketing. Two full-time biometricians are employed by the Station to consult with the staff on experimental design and data analysis. IBM equipment is available for use in data computation. The station editor is available for consultation in the preparation of research manuscripts.

Facilities include modern greenhouses with nearby field plots; complete seed-testing facilities with appropriate germinators; controlled temperature and atmosphere chambers for meats, fruits, vegetables, and flowers; soil temperature control equipment; complete equipment for plant and animal tissue analyses; flavorium; electrocardiograph equipment, including a cardietee and sound recorder; paper and vapor chromotography equipment; color measurement instruments; freeze drying and assay facilities; high frequency preservation equipment; irradiation facilities; metabolic equipment for plants, animals, tissues, and fluids; small- and large-animal rearing facilities; hydraulic dynamometers; fractional-horsepower electric dynamometers, electron microscope; X-ray diffraction analysis equipment; and a complete array of gas engine analytical equipment.

Engineering Experiment Station

The Engineering Experiment Station is the administrative division of the School of Engineering which serves to correlate the research activities of the staff and associated students. Projects originate through staff interests, by government or industrial sponsorship, or through the cooperative activities of trade associations. Each year a number of research assistantships or fellowships are available depending upon the status and number of active projects. The facilities of the entire school are available to the program and specifically designated space is available in the Industrial Building for the larger equipment installations. Results of researches are published by the Station in bulletin, circular, or reprint form.

Forest Experiment Station

The Forest Experiment Station is an integrant of the School of Forestry. Staff members and laboratory facilities are available for investigation of problems in all phases of forestry as well as in related fields. Interdepartmental cooperation permits research in forest

pathology, forest entomology, forest soils, forest ecology, range management, agricultural engineering, and other interdisciplinary fields. State and Federal agencies in related fields cooperate with the Station in promoting investigations to serve industry, landowners, public departments, professional foresters, teachers, and the general public. Graduate students may carry research programs in the Forest Experiment Station either as majors in forestry or in the related fields indicated above. A number of research assistantships and fellowships are available each year to qualified students.

Research Facilities in Home Economics

Fields of study in home economics include clothing, textiles, and related arts; foods and nutrition; home management; child development; family relations; family economics; housing; equipment; institution management; and education. The School of Home Economics cooperates with the Agricultural Experiment Station in its research program. Studies are also supported by General Research Funds.

Modern laboratories for clothing, textiles, and related arts are equipped for microscopic, physical, and chemical analyses of textiles, the design of handwoven fabrics, clothing design and construction, and the study of home furnishings. In a conditioning room, yarn and fabric properties such as yarn twist, breaking strength, and water repellency may be investigated under standard conditions of temperature and humidity.

Two laboratory nursery school units and two home management houses are available in the Department of Family Life and Home Administration, as well as housing and equipment laboratories. Further study of child behavior may be carried on at child care centers in Portland. Under a cooperative arrangement with the University of Oregon, candidates for advanced degrees may take work in family relationships and in sociology with a major or minor at either institution.

Research in nutrition includes studies on varied aspects of metabolism in humans and in animals. Specialized equipment is available in the areas of colorimetry, fluorimetry, spectrophotometry, chromatography, and microbiology.

Ample space for foods research includes preparation, judging, and chemical areas. Facilities are available for investigations in freezing, microscopic structure, keeping qualities, and other aspects of food studies. Instruments include controlled ovens, freezers, viscosimeter, recording doughmixer, recording potentiometer, equipment for photomicrographs, microtomes, shearing apparatus, shortometer, Carver press, compressimeter, and others for special measurements.

Institution management facilities are available for studies in quantity food preparation, and for experimental work with large quantity power equipment. Housing and food service facilities of the campus and resources of the community are available for research studies.

Facilities for graduate work in home economics education are provided in the Home Economics Building in cooperation with the School of Education.

Oregon Forest Research Center

The Oregon Forest Research Center conducts research in forest management and forest products utilization under direction of the Forest Protection and Conservation Committee.

The program includes research in the establishment, protection, and management of forest stands to improve productiveness and quality of the State's forest resource. Forest products research includes developing new products from wood and bark residues, improving serviceability of all forest products to promote maximum value recovery from the timber resource. Both programs communicate results and other technical information to timber owners, manufacturers, and users of forest products. The Center cooperates actively with many departments of Oregon State College, with industry, and with other research agencies to gain mutually desired objectives.

Opportunities exist at the Center for graduate student research in several fields, particularly for students majoring in science, forestry, and engineering. Members of the staff are qualified by training and experience to advise graduate students in nearly all phases of forest and forest products research. Student investigations conducted in the past have proved mutually advantageous.

Construction of the new Center on the south edge of the campus in 1957 provided expanded and improved research facilities, and enhanced opportunities for graduate research.

B. Evidence of Stability

1. The first record of graduate work at Oregon State College is the conferring of the first Master of Arts degree in 1876. Between the years of 1876 and 1910, a total of fifteen master's degrees was conferred. In 1910 a Committee on Advanced Degrees was formed, which may be considered as the precursor of the Graduate School. After the initiation of the Graduate Committee three master's degrees were awarded in 1910, and since, advanced degrees have been conferred annually. The first master's degree in Pharmacy was conferred in 1911, Home Economics 1915, Education 1923, Science 1923, Engineering 1926, and Forestry 1928. Until the School of Science was established in 1932, students majoring in Science received degrees in Agriculture. From 1923 to 1933 twelve master's degrees in the fields of Economics and Sociology were conferred, while a few degrees in Commerce were granted in 1928 and 1929; no advanced degrees in these fields have been conferred since.

A further milestone in the development of the graduate school was the formation of a Graduate Division of the State System of Higher Education in 1932, and the Graduate Committee was replaced by the Graduate Council at Oregon State College in 1933. On the basis of the 1932 allocation of curricula in the Oregon State System of Higher Education all graduate study leading to advanced degrees in the biological sciences, the physical sciences, and the technical and professional fields of agriculture, education, engineering, forestry, home economics, and pharmacy was allocated to Oregon State College. This included the Doctor of Philosophy degree, the first of which were awarded in 1935 in the fields of soils, chemistry, physics, and zoology. The Doctor of Education degree was instituted in 1937. Graduate enrollments steadily increased in the late thirties and reached a peak of 253 students in the spring of 1940. World War II caused a rapid decline in enrollments, however, and a low of 49 was reached in the fall of 1943.

In 1946 the Graduate Division of the State System of Higher Education was dissolved and the College and University were given autonomous graduate schools. After World War II graduate enrollments increased rapidly, largely because of the returning veterans. The highest enrollment before 1957-58 was attained in the spring of 1951 with 556 students. Since then the graduate enrollment fluctuated slightly with a postwar low of 422 in the spring of 1954 and with a gradual increase since. At present the graduate enrollment is 755 with a total of about 1700 students registered during the year. The greatest number of advanced degrees were conferred at the 1958 commencement with a total of 317. In 1956, 68 doctoral degrees were conferred, the largest number on record. Since graduate degrees have been offered at Oregon State, a total of 3309 master's degrees, 63 professional degrees, and 475 doctoral degrees have been conferred.

2. The present dean, H. P. Hansen, has been dean since July 1, 1949.

3. Yearly enrollments:

ENROLLMENTS

	M.S.	M.A.	Ag.M.	Ed.M.	M.F.	M.HEc.	Ph.D.	Ed.D.	Non-degree	Total Students
1949-50										
Fall Term	251	25		8	5		90	10	46	435
Winter Term	259	31		17	4		84	14	56	465
Spring Term	272	32		21	5	3	83	19	63	498
Individual Students, Regular School Year										626
Summer Session										633
Individual Students Including Summer Session										1272
1950-51										
Fall Term	276	33		21	10	5	100	15	50	510
Winter Term	272	30		21	9	8	97	18	64	519
Spring Term	284	35		28	6	7	99	21	76	556
Ind. Students										623
Summer Session	250	24		109		17	41	28	214	683
Ind. Students Including SS										1159
1951-52										
Fall Term	229	19		14	4	4	100	21	52	443
Winter Term	215	19	2	16	7	4	100	22	55	440
Spring Term	202	16	3	15	6	3	99	21	48	413
Ind. Students										473
Summer Session	247	19		110		24	44	38	315	797
Ind. Students Including SS										1085
1952-53										
Fall Term	193	24	8	11	1	9	116	15	43	420
Winter Term	205	17	4	17	2	7	117	19	53	441
Spring Term	186	14	8	21	4	6	113	21	52	425
Ind. Students										535
Summer Session	133	16	5	121		23	50	42	234	624
Ind. Students Including SS										1049

ENROLLMENTS (CONTINUED)

	M.S.	M.A.	Ag.M.	Ed.M.	M.F.	M.HEc.	Ph.D.	Ed.D.	Non-Degree	Total Students
1953-54										
Fall Term	186	16	4	20	11	2	123	22	44	428
Winter Term	182	17	10	20	12	1	125	18	50	435
Spring Term	176	16	8	20	11	1	114	22	54	422
Ind. Students										521
Summer Session	115	9	8	153		19	53	34	235	626
Ind. Students Including SS										1029
1954-55										
Fall Term	178	20	4	25	11	2	129	14	50	433
Winter Term	175	20	10	27	13	3	122	13	48	431
Spring Term	177	20	11	34	10	6	118	13	47	436
Ind. Students										542
Summer Session	102	11	16	156		30	59	28	237	639
Ind. Students Including SS										1096
1955-56										
Fall Term	182	14	6	15	11	8	147	8	59	450
Winter Term	186	17	4	26	10	6	153	9	62	473
Spring Term	187	14	3	26	6	4	137	7	55	439
Ind. Students										567
Summer Session	113	12	16	169	1	34	62	20	236	663
Ind. Students Including SS										1100
1956-57										
Fall Term	221	14	6	23	4	10	151	5	41	475
Winter Term	229	24	8	22	4	8	143	7	52	497
Spring Term	225	18	5	23	4	6	139	6	47	473
Ind. Students										584
Summer Session	123	19	2	165		30	44	17	328	728
Ind. Students Including SS										1187

ENROLLMENTS (CONTINUED)

	MS.	M.A.	Ag.M.	Ed.M.	M.F.	M.HEc.	Ph.D.	Ed.D.	Non-Degree	Total Students
1957-58										
Fall Term	317	17	10	22	9	11	162	6	49	603
Winter Term	327	24	10	28	9	3	166	5	52	624
Spring Term	319	20	9	41	9	4	155	5	54	616
Ind. Students										750
Summer Session	139	15	7	184		33	45	21	282	726
Ind. Students Including SS										1356
1958-59										
Fall Term	362	21	11	31	8	7	175	3	71	689
Winter Term	375	21	9	36	7	2	170	1	69	692
Spring Term	352	21	6	41	8	2	164	2	61	657
Ind. Students										804
Summer Session	192	24	3	224	1	32	47	14	429	966
Ind. Students Including SS										1621
1959-60										
Fall Term	387	27	12	35	9	6	223	4	52	755

C. Finance

See departmental report in REPORT II.

D. Plant

See departmental report in REPORT II.

E. Materials and Equipment

See departmental report in REPORT II.

F. Library

1-4. The physical library facilities for graduate work are, as detailed under item 6 below, very poor. In resources, however, our holdings, in the some forty subject fields in which graduate work is offered, range from adequate to good, and in some areas such as botany, chemistry, and mathematics to excellent. In substantiation of this statement a selective but comprehensive working list of encyclopedic publications, abstract journals, and specialized and nonspecialized research journals, arranged by graduate subject areas, has been compiled. This list, running to 111 typescript pages, is available for inspection in the office of the Graduate Dean.

The working list records numerous complete or nearly complete titles. This is so because for many years the library followed a policy of making journal sets as complete as possible. Recently however emphasis has been shifted from striving for completeness to subscribing for as many of the numerous newer scientific and technical journals as can be commanded within available funds. Substantial success in this program is shown by the steadily growing number of periodical subscriptions set forth above under F4 of REPORT I.

Many of our general but very important encyclopedic sets have not been included in the working list. These excluded titles, both in the English and foreign languages, are of great importance in the graduate program. The range of foreign library holdings of this kind is reflected by such titles as Svensk Uppslagsbok; Enciclopedia Universal Illustrada (Espasa); Enciclopedia Italiana; Der Grosse Brockhaus and Bol'shaia Sovetskaia Entsiklopedia.

The solid strength of the library in encyclopedic publications in specific subject areas is shown by the following selected list of such publications in the field of chemistry:

Beilstein, F. K. Handbuch der organischen Chemie. 4th ed. 1918-1959. 88 v. in 83.

Elderfield, R. C. Heterocyclic compounds. 1950-1957. 6 v.

Elsevier's Encyclopedia of organic chemistry. 1946-1959. 3 v. in 17.

Gmelin-Kraut's Handbuch der anorganischen Chemie. 8th ed. 1924-1959. 57 v.

Grignard, Victor. Traite de chimie organique. 1935-1954. 23 v.

Handbuch der analytischen Chemie. 1940-1958. 25 v.

Heilbronn, I. M. Dictionary of organic compounds. 1953. 4 v.

Koglin, W. Kurzes Handbuch der Chemie. 1951-1954. 4 v. in 3.

Mellor, J. W. A comprehensive treatise on inorganic and theoretical chemistry. 1922-1937. 16 v.
Supplement 1956-

Rodd, E. H. Chemistry of carbon compounds. 1951-1959. 4 v. in 8.

Further evidence of encyclopedic library strength in the sciences, again strictly on a sampling basis, is shown by the following lists in the fields of zoology and entomology:

Zoology

Abderhalden, Emil. Handbuch der biologischen Arbeitsmethoden. 1925-1939. 36 v.

Bronn, H. G. Klassen und Ordnungen des Tierreichs. 1866-1957. Buch 1-6 (incomplete).

Faune de France. 1921-1958. 60 v.

Handbuch der Zoologie. 1923-1958. v. 1-8 in process of publication.

Manual of conchology. 1879-1935. 45 v.

Skriabin, K. I. Trematody zhivotnykh i cheloveka. 1947-1958. 15 v.

Traite de zoologie. 1948-1957. 9 v. in 14.

Entomology

Biologia Centrali-Americana. 1880-1915. 51 v.

Commonwealth Institute of Biological Control. A catalogue of the parasites and predators of insect pests. 1943-1958. 16 pts.

Encyclopedie entomologique. 1924-1959. 40 v.

Linder, E. Die Fliegen der Palaeaktischen Region. 1930-1956. 8 v.

Wytsman, P. Genera insectorum. 1902-1959. 213 pts.

Similar publications are held in the other fields in which graduate work is offered. We believe that we own practically all the major encyclopedic publications in our areas of graduate emphasis.

Our library is also strong in abstract journals and the indexes, the basic tool books of graduate research. As evidence of this strength we submit, on a sampling and selective basis from the larger working list titles owned in two representative fields.

Farm Crops

Advances in agronomy. v.1, 1949-

Agronomy abstracts. v.28 cm., 1955-

Experiment station record. v.1-95, 1889-1946.

Field crop abstracts. (Commonwealth bureau of pastures and field crops.) v.1, 1948-

Herbage abstracts. (Commonwealth bureau of pastures and forage crops.) v.1, 1931-

Plant breeding abstracts (Commonwealth bureau of plant breeding and genetics.) v.1, 1930-

U. S. Dept. of Agriculture card catalog of 78,664 cards arranged by author, subject and title.

Zoology

Berichte über die wissenschaftliche Biologie. v.1, 1926- (lack 4 v.)

Bibliographia zoologica. v.1-43, 1896-1934.

Biological abstracts. v.1, 1926-

Biologisches Zentralblatt. v.1, 1881- (lack v. 60)

Helminthological abstracts. v.1, 1932-

Index-catalogue of medical and veterinary zoology. Authors. pt. 1, 1932-

International abstracts of biological sciences. v.1, 1954-

Physiological abstracts. v.1-22, 1916-1938.

Wistar Institute of Anatomy and Biology. Advance abstract card service.

Zoological record. v.1, 1864-

Similar abstracts are, of course, held in many other fields.

A major portion of the total library resources consists of research journals and other serial publications. As examples we cite the following highly selective list of serial holdings in agricultural economics and agricultural education:

International Conference of Agricultural Economists, v.1, 1929-date.

Yearbook of Food and Agricultural Statistics, 1947-date.

Tidsskrift for landkonomi, 1930-date.

Copenhagen. K. Veterinaer-og landbohøjskole.
Aarskrift, 1917-date.

Indian Agricultural Research Institute, Delhi.
Scientific Reports, 1907-09 - date.

Michigan farm economics, no. 1, Apr. 1934-date.

Piracicaba, Brazil, Escola agricola "Luiz de Aueiroz." Anais, v.1, 1944-date.

Uppsala. Lantbrukshögskolan och Statens Landbruksförsök. Annaler, v.1, 1933-34 - date.

West Scotland Agricultural College. Glasgow. Farm and experiments, 1951-date.

These few titles are representative of the resources of the library in these two subject areas. Hundreds of additional titles in the various subject fields are set forth in the working list on file in the Graduate Office.

We emphasize that there are in our graduate program many interdepartmental disciplines, ramifying into varied fields such as science, engineering, forestry, agriculture, and mathematics. Home economics is one such field. Of the 150 periodicals subscribed for by the Library to support the work of this school, 105 are found somewhere in the long working list of which this present statement is a summary. Genetics is another field with wide subject ramification.

Still another widely ramifying subject field, well supported by library holdings, is forestry. Some of our resources of particular value in this area are:

Bibliography of Agriculture

Agriculture Index

Experiment Station Record

Plant Breeding Abstracts

Review of Applied Mycology

Soils and Fertilizers

Wild Life Review

Herbage Abstracts

Biological Abstracts

Botanical Abstracts

Review of Applied Entomology

Zoological Record

In addition to the above tools, useful in a wide range of subjects, the library has just recently acquired, on 35,000 cards, the Boyce Index of Forest Pathology. It has long subscribed for Forestry Abstracts published by the Commonwealth Forestry Bureau. Since 1957 Forestry Abstract cards, with world-wide coverage have been purchased. These cards already number well over 7,000.

5. In addition to extensive holdings of encyclopedias, indexes, abstracts, and research journals as summarized in 1-4 above, and as recorded in detail in the working list of these journals on file in the Graduate Dean's office, the library is a regional depository for the publications of the Atomic Energy Commission. These extensive publications, received for the most part in micro-reduction, now total 32,500 micro print cards which are the equivalent of approximately 2,000,000 letter press pages. These depository materials are an important research resource not only for Oregon State College but for this entire area. Similarly the library is a depository for the publications of the Rand Research Corporation of Santa Monica. These publications too are an important research asset.

A strong feature of our graduate program is that the total library resources are well and carefully organized. They are expertly managed and interpreted, in a combination open and closed stack arrangement. The

literature of engineering, agriculture, forestry, and the sciences is available on open stacks under the direction of competent subject specialist librarians. This is true also of our holdings in English and the foreign literatures. The remaining resources of the library are, solely because of the nature of our antiquated library building, housed in closed stacks and serviced by a central circulation department. A general reference staff of five librarians supplements and assists graduate work and research in all areas. We believe that through excellent organization and competent librarianship the use of the resources of the library proceeds at a satisfactory level in spite of an obsolete and long since outgrown library building.

6. The library building is inadequate in special arrangements and facilities for intensive library use found at most universities. A new library building projected for the near future will re ify these shortcomings.

G. Records and Reports

1. Student records, Graduate Council minutes, General Research accounts and inventory, biennial reports, research reports, etc.

2. Two bound copies of each thesis are filed in the Library where they are readily available. They also are available on interlibrary loan.

3. Abstracts of theses have not been published. All Ph.D. and Ed.D. dissertations are microfilmed by University Microfilms, Inc., Ann Arbor, Michigan. A list of theses by title since 1943 is available. Henceforth lists of thesis titles will be published about every three years.

4. Most departments keep a record of the publication of theses in national journals. For the college about 60 per cent of theses are published, for the doctorate about 75 per cent.

H. The Curriculum

1. See Graduate School catalog for major fields of specialization.

2. See Graduate School catalog for graduate courses.

3. REQUIREMENTS FOR ADVANCED DEGREES

Degree	Credit req.	Major	Minor	Minimum GPA for entrance	Residence req.	Fields	Foreign Language	Maximum term regis.	Thesis	Paper	Ext.* or other transfer[1]
Master of Science	45	30	15	2.5	1 yr.	--	--	16	6-12	--	15 hrs.
Master of Arts	45	30	15	2.5	1 yr.	--	one	16	6-12	--	15 hrs.
Master of Agriculture	45	--	--	2.5	1 yr.	3	--	16	--	3-5	15 hrs.
Master of Education											
Option A	45[2]	30	15	2.5	12 hrs.	--	--	16	6-12	--	33 hrs.*
Option B - Guidance	45	30[3]	15	2.5	12 hrs.	--	--	16	--	--	33 hrs.*
Option C	45	30[4]	15	2.5	12 hrs.	--	--	16	--	--	33 hrs.*
Master of Forestry											
Option A	45	30	15	2.5	1 yr.	--	--	16	6-12	--	15 hrs.
Option B	45	21[5]	--	2.5	1 yr.	--	--	16	--	2 rpts.	15 hrs.
Master of Home Ec. (Also may major in General Home Economics, consisting of three fields of home economics.)	45	30	15	2.5	1 yr.	--	--	16	--	Wr.rpt.	15 hrs.
M.A.(Gen. Studies)[6]	45	--	--	2.5	--	3	--	16	6-12	--	30*+15
Doctor of Education[7]	135+	60%	40%(2)	2.5	1 yr.[9]	--	--	16	20-25	--	2 yrs.[8]
Doctor of Philosophy	135+	60%	40%(2)	2.5	1 yr.[9]	--	two	16	25-45	--	2 yrs.

1/ A maximum of 15 hours may be transferred from an accredited institution, provided the work is on the graduate level, has grades of A or B, and fits into a logical master's degree program.
2/ Workshop and/or other blanket courses limited to 9 hours.
3/ Includes 21 hours in prescribed courses. Minor must be in psychology.
4/ Includes 27 hours in prescribed courses. Minor may also be in education.
5/ Other 24 hours may be elected from other departments of forestry or related fields outside forestry.
6/ No residence on campus is required.
7/ A minimum of two years of teaching at either elementary or secondary level is required.
8/ No extension after the master's year.
9/ A minimum of 45 hours of formal course work is required.

4. Professional degrees:

Engineer

For the degrees of Agricultural Engineer, Chemical Engineer, Civil Engineer, Electrical Engineer, Industrial Engineer, Mechanical Engineer, Metallurgical Engineer, and Mining Engineer, the candidate must meet one of the following sets of requirements:

(1) Those who hold a baccalaureate or master's degree from Oregon State College must have at least 5 years of successful professional practice following graduation. Graduate study, by Extension or otherwise, may be substituted for professional practice to a maximum of 3 years, and at the approximate rate of 12 term-hours of graduate credit in lieu of each year of professional practice. No thesis credit will be permitted in such substitution, but the candidate must present a satisfacory thesis upon a subject of his professional experience and compatible with the designation of the degree.

(2) Those who do not hold baccalaureate or master's degrees from Oregon State College are subject to the same requirements as (1) with the additional stipulation that at least 12 term-hours of graduate work must be completed in residence upon the Oregon State campus.

In both cases, on or before January 1 of the academic year in which the degree is desired, the candidate submits to the chairman of the appropriate department a complete statement of his professional experience and graduate academic credit since receipt of his last degree. Accompanying the statement should be a thesis title and sufficient description or outline of thesis content to provide a basis of evaluation. After the statement has been approved by the chairman of the department, the School Graduate Committee, and the Graduate Council, the candidate is instructed to prepare and submit his thesis. The thesis must be of high order and is subject to the same scrutiny and regulations as other graduate theses. Upon acceptance of the thesis, the candidate is recommended for the degree in the usual manner. The candidate applies for the degree with the Registrar of the College, either in person or by mail not later than March 1.

5. New graduate courses are approved by the following administrative units: Department, Dean of the School, Curriculum Council, Graduate Council, Faculty Senate, Chancellor, State Board of Higher Education.

New graduate degrees within the framework of allocation are authorized through the Graduate Council, the Curriculum Council, and the Faculty Senate. New degrees that do not come within the framework of the State System allocations must be approved by the Chancellor and the State Board of Higher Education.

I. The Instructional Staff

1. Members of the faculty are authorized to direct theses of major students by action of the Graduate Council. A list of those who may direct theses follows:

GRADUATE FACULTY (May direct theses)

AGRICULTURAL ECONOMICS
Professor G. B. Wood, Head
Professors:
G. E. Blanch
E. N. Castle
G. B. Davis
H. F. Hollands
G. E. Korzan
D. C. Mumford
Associate Professors:
M. H. Becker
W. G. Brown
S. K. Christensen
C. V. Plath
G. R. Sitton
Assistant Professor:
R. D. Langmo

AGRICULTURAL EDUCATION
Professor H. A. TenPas, Head
Assistant Professor:
G. B. Davis

AGRICULTURAL ENGINEERING
Professor J. B. Rodgers, Head
Professors:
M. G. Cropsey
R. N. Lunde
H. R. Sinnard
Associate Professors:
D. E. Kirk
J. W. Wolfe
Assistant Professors:
Leroy Bonnicksen
D. E. Booster
L. V. Christensen

BACTERIOLOGY AND HYGIENE
Professor P. R. Elliker, Chairman
Professors:
C. L. Anderson
W. B. Bollen
C. M. Gilmour
C. V. Langton
K. S. Pilcher
Associate Professors:
A. W. Anderson

BACTERIOLOGY AND HYGIENE (Cont.)
Assistant Professor:
L. W. Parks

BOTANY
Professor R. A. Young, Chairman
Professors:
J. A. Milbrath
F. P. McWhorter
L. F. Roth
F. H. Smith
E. K. Vaughan
Associate Professors:
R. O. Belkengren
W. W. Chilcote
J. R. Hardison
C. E. Horner
H. J. Jensen
L. E. Jones
H. K. Phinney
Assistant Professors:
W. H. Brandt
M. E. Corden
I. W. Deep
L. A. Leach

BUSINESS EDUCATION
Professor C. T. Yerian, Head
Professors:
L. Q. Larse
F.E. Winger

CHEMICAL ENGINEERING
Professor J. S. Walton, Head
Professors:
G. W. Gleeson
J. G. Knudsen
Associate Professor:
C. E. Wicks
Assistant Professors:
R. E. Meredith
R. H. Moen

CHEMISTRY
Professor B. E. Christensen, Chairman
(Continued on next page)

CHEMISTRY (Continued)
Professors:
J. S. Butts
W. E. Caldwell
V. H. Cheldelin
J. C. Decius
E. C. Gilbert
J. R. Haag
T. E. King
E. F. Kurth
A. V. Logan
C. S. Pease
L. F. Remmert
G. A. Richardson
A. B. Scott
W. H. Slabaugh
C. H. Wang
P. H. Weswig
M. B. Williams
Associate Professors:
E. C. Bubl
S. C. Fang
V. H. Freed
H. Freund
K. W. Hedberg
E. N. Marvell
R. W. Newburgh
T. H. Norris
L. C. Terriere
Assistant Professors:
C. R. Heisler
W. D. Loomis
T. D. Parsons
H. D. Reese

CIVIL ENGINEERING
Professor G. W. Holcomb, Head
Professors:
M. P. Coopey
T. J. McClellan
F. Merryfield
S. L. Pan
R. A. Wanless
Associate Professors:
C. W. Behlke
F. J. Burgess
O. Kofoid
R. H. Shoemaker

CIVIL ENGINEERING (Continued)
Assistant Professors:
J. M. Bell
G. W. Beecroft

CLOTHING, TEXTILES, AND RELATED ARTS
Professor Florence E. Petzel, Head
Professor:
Joan Patterson
Associate Professors:
Marie Diedesch
Clara W. Edaburn
Ida Ingalls
Marie Ledbetter
Ruth A. Moser
Assistant Professors:
Phyllis E. Grant
Josephine Wasson

DAIRY AND ANIMAL HUSBANDRY
Professor J. C. Miller, Head
Professors:
R. Bogart
J. R. Haag
I. R. Jones
H. M. Krueger
J. H. Landers
F. F. McKenzie
C. E. Poulton
P. H. Weswig
Associate Professors:
C. W. Fox
D. W. Hedrick
J. E. Oldfield
A. W. Oliver
F. B. Wolberg
Assistant Professors
D. C. Church
D. C. England
S. Y. Wu

EDUCATION
Professor F. R. Zeran, Dean
Professors:
R. J. Clinton
D. M. Goode
J. K. Munford
R. R. Reichart

GRADUATE FACULTY (CONTINUED)

EDUCATION (Continued)
Professors:
W. C. Reid
H. A. TenPas
S. E. Williamson
Associate Professors:
R.B.D. Baron
Percy Margaret Gill
J. V. Hall
N. D. Marksheffel
Margaret Milliken
F. L. Parks
Assistant Professors:
G. O. Cannon
F. W. Fox
A. L. Leeland
Helen I. Reed
R. Lucille Rees
Rose Sabaroff

ELECTRICAL ENGINEERING
Professor L. N. Stone, Head
Professors:
A. L. Albert
H. Cockerline
G. S. Feikert
P. C. Magnusson
Associate Professor:
J. F. Engle
R. R. Michael
H. J. Oorthuys
L. J. Weber
Assistant Professors:
L. C. Jensen
S. A. Stone

ENTOMOLOGY
Professor P. O. Ritcher, Chairman
Professors:
C. H. Martin
Associate Professors:
H. H. Crowell
R. G. Rosenstiel
J. A. Rudinsky
W. P. Stephen
K. G. Swenson
L. C. Terriere

ENTOMOLOGY (Continued)
Assistant Professors:
V. J. Brookes
E. A. Dickason
R. L. Goulding
G. W. Krantz
Instructors:
F. F. Hasbrouck
J. D. Lattin

FAMILY LIFE AND HOME ADMINISTRATION
Professor Katherine N. Read, Head
Professors:
L. A. Kirkendall
Associate Professors:
Edna M. Van Horn
Miriam A. Wiggenhorn
Assistant Professors:
Marian C. Aikin
Martha A. Plonk
H. D. Schalock

FARM CROPS
Professor J. R. Cowan, Head
Professors:
W. H. Foote
C. E. Poulton
Associate Professors:
W. R. Furtick
D. W. Hedrick
W. S. McGuire
Assistant Professors:
Te May Ching
R. J. Metzger

FISH AND GAME MANAGEMENT
Professor R. E. Dimick, Head
Professors:
P. Doudoroff
A. S. Einarsen
Associate Professors:
C. E. Bond
M. Katz
L. W. Kuhn
J. B. Long
Assistant Professor:
C. E. Warren

GRADUATE FACULTY (CONTINUED)

FOOD AND DAIRY TECHNOLOGY
Professor H. W. Schultz, Head
Professors:
E. M. Litwiller
G. A. Richardson
Associate Professors:
R. F. Cain
E. W. Harvey
T. O. Onsdorff
C. E. Samuels
R. O. Sinnhuber
R. W. Stein
C. J. Wilder
O. J. Worthington
H. Y. Yang
Assistant Professors:
E. A. Day
J. H. Dietz

FOODS AND NUTRITION
Professor Margaret L. Fincke, Head
Professors:
Andrea O. Mackey
Clara A. Storvick
Associate Professors:
Helen Charley
Betty E. Hawthorne
Beth B. McLean
Assistant Professor:
Margaret C. Ware

FOREST ENGINEERING
Professor W. A. Davies, Head
Associate Professors:
J. E. O'Leary
R. L. Wilson

FOREST MANAGEMENT
Professor J. R. Dilworth, Head
Professors:
G. H. Barnes
D. S. Jeffers
W. F. McCulloch
D. D. Robinson
Associate Professors:
W. K. Ferrell
R. F. Keniston
H. I. Nettleton

FOREST MANAGEMENT (Continued)
Associate Professors:
W. P. Wheeler
R. A. Yoder
Assistant Professors:
J. F. Bell
W. R. Randall
C. F. Sutherland

FOREST PRODUCTS
Professor W. I. West, Head
Associate Professor:
M. D. McKimmy

GENERAL SCIENCE
Professor H. P. Hansen, Chairman
Professors:
F. A. Gilfillan
S. E. Williamson
Associate Professor:
F. M. Beer
Assistant Professor:
D. G. Humphrey

GEOLOGY
Professor I. S. Allison, Chairman
Professor:
W. D. Wilkinson
Associate Professor:
W. H. Taubeneck
Assistant Professors:
D. A. Bostwick
J. C. Cummings
G. S. Koch
Instructor:
D. O. Cochran

HOME ECONOMICS EDUCATION
Professor May DuBois, Head
Associate Professor:
Isabella F. McQuesten

HORTICULTURE
Professor S. B. Apple, Head
Professors:
W. A. Frazier
Elmer Hansen
Henry Hartman
A. N. Roberts

HORTICULTURE (Continued)
Associate Professors:
L. T. Blaney
D. C. Compton
Q. B. Zielinski
Assistant Professors:
J. R. Baggett
H. J. Mack

INDUSTRIAL EDUCATION AND INDUSTRIAL ENGINEERING
Professor G. B. Cox, Head
Professors:
W. F. Engesser
M. C. Sheely
Associate Professors:
C. B. Ainsworth
A. A. Robley
R. W. Williamson
Assistant Professors:
G. O. Cannon
M. F. Johnson
R. C. Wilson

INSTITUTION MANAGEMENT
Associate Professor Helen Mulhern, Head

MATHEMATICS
Professor A. T. Lonseth, Chairman
Professors:
I. M. Hostetter
B. H. Arnold
R. E. Gaskell
H. E. Goheen
F. Oberhettinger
A. R. Poole
G. A. Williams
Associate Professors:
W. J. Kirkham
E. R. Reifenberg
R. B. Saunders
W. M. Stone
Assistant Professor:
R. D. Stalley

MECHANICAL ENGINEERING
Professor Louis Slegel, Head
Professors:
C. O. Heath
A. D. Hughes
O. G. Paasche
W. H. Paul
M. Popovich
Associate Professors:
M. B. Larson
W. W. Smith
R. D. Olleman
G. E. Thornburgh
Assistant Professors:
R. W. Boubel
E. A. Daly
E. W. Geller

NATURAL RESOURCES
Professor J. G.Jensen, Chairman
Professor:
R. M. Highsmith
Associate Professors:
Oliver Heintzelman
W. G. Myatt
Assistant Professor:
R. D. Rudd

OCEANOGRAPHY
Professor W. V. Burt, Chairman
Associate Professor:
H. F. Frolander

PHARMACY, PHARMACEUTICAL CHEMISTRY, PHARMACOLOGY AND PHARMACOGNOSY
Professor C. O. Wilson, Dean
Professors:
H. C. Forslund
R. S. McCutcheon
L. A. Sciuchetti
Associate Professors:
B. F. Cooper
Assistant Professors:
H. Wayne Schultz
D. M. Stuart

GRADUATE FACULTY (CONTINUED)

PHYSICS
Professor E. A. Yunker, Chairman
Professors:
J. J. Brady
R. R. Dempster
W. R. Varner
Associate Professors:
F. W. Decker
J. C. Garman
D. B. Nicodemus
Larry Schecter
H. R. Vinyard
Assistant Professors:
D. S. Burch
G. L. Trigg

POULTRY HUSBANDRY
Professor J. E. Parker, Head
Professors:
P. E. Bernier
J. A. Harper
Associate Professor:
G. H. Arscott

SCIENCE EDUCATION
Professor S. E. Williamson, Chairman
Professor:
C. L. Anderson
Associate Professor:
R. A. Foster
Assistant Professor
F. W. Fox

SOILS
Professor H. B. Cheney, Head
Professor:
C. T. Youngberg
Associate Professors:
M. D. Dawson
D. D. Evans
M. E. Harward
T. L. Jackson
E. G. Knox
J. L. Young
Assistant Professor:
L. A. Alban

STATISTICS
Professor J. C. R. Li, Chairman
Professor:
L. D. Calvin
Associate Professors:
R. F. Link
R. G. Petersen

VETERINARY MEDICINE
Professor E. M. Dickinson, Head
Professors:
O. H. Muth
J.N. Shaw
L. R. Vawter
Associate Professor:
J. F. Bone
Assistant Professor:
S. E. Knapp

ZOOLOGY
Professor E. J. Dornfeld, Chairman
Professors:
D. I. Allman
K. L. Gordon
H. H. Hillemann
H. M. Krueger
Ivan Pratt
Associate Professors:
A. W. Pritchard
R. M. Storm
Assistant Professors:
F. L. Hisaw
J. D. Mohler
Alfred Owczarzak

2. Functions of the graduate faculty are to teach graduate courses, advise graduate students as major professors, supervise thesis research, make suggestions to the Graduate Committee of their Schools concerning anything that relates to graduate work in all of its aspects, and attend oral examinations in their respective fields.

3. While it is difficult to equate the time involved in handling graduate students into credit hours, in general we give a professor one credit hour per week per graduate student being advised. On the basis of clock hours, this would be from three to four per week. Under this arrangement, supervising about 12 graduate students would represent a full-time load.

J. Instruction

1. See departmental report in REPORT II.

2. About 2 per cent of students are dropped or drop voluntarily out of the graduate school for poor scholarship during their first academic year.

About 10 per cent of the graduate students enrolled are disciplined for poor scholarship during their first academic year. At the end of each term, students who are not maintaining sufficiently high grades are informed by mail that before they can register for the ensuing term they must have a letter recommending such from the major professor. Conferences are held with these students by the major professor and the graduate dean in an effort to determine how their scholarship may be improved. At the end of the first academic year they are dropped unless they show definitely that they have the ability to carry graduate work at a satisfactory level.

3. For the master's degree from 15 to 25 per cent of the student's graduate program comprises work devoted to the thesis. For the doctoral degree from 35 to 50 per cent of the program is devoted to the dissertation.

4. Theses are not required for the professional master's degrees which include Master of Agriculture, Master of Education, Master of Forestry, and Master of Home Economics.

5. For the M.S. and M.A. degrees a student must have a year of residence. By year of residence is meant a program of from 10 to 12 hours per term for three terms.

For the doctoral degree a minimum of one year of continuous residence on the campus is required, constituting a minimum of 45 hours of formal course work. Rarely, if ever, has a student completed requirements for the Ph.D. in one year, regardless of the amount of work done elsewhere.

6. A time limit of seven years is set for the master's degree. There is no formal time limit for the doctorate. This is regulated in terms of the situation of a particular student. A maximum of five years may elapse between the preliminary and final examination.

K. Administration

1. The graduate dean is appointed by the President of the college with the assistance of a committee for the selection of administrative officers.

2. Graduate Council:

Henry Paul Hansen, Ph.D., *Dean*
Irva Tidd, *Secretary*

Graduate Council

H. P. Hansen, *Chairman*
Ralph Colby, J. G. Knudsen, J. W. Sherburne, Wilbur T. Cooney,
R. S. McCutcheon, E. A. Yunker, J. R. Dilworth,
Margaret L. Fincke, F. R. Zeran, E. C. Gilbert

Graduate Committees

Science: E. C. Gilbert, *chairman,* W. B. Bollen, E. J. Dornfeld,
J. G. Jensen, A. T. Lonseth, P. O. Ritcher, W. D. Wilkinson,
Stanley Williamson, R. A. Young, E. A. Yunker.

Agriculture: Wilbur T. Cooney, *chairman,* Ralph Bogart,
J. R. Cowan, Wm. A. Frazier.

Education: F. R. Zeran, *chairman,* Denis Baron, G. B. Cox,
May DuBois, H. A. Ten Pas, S. E. Williamson.

Engineering: G. W. Gleeson, *chairman,* G. B. Cox, G. W. Holcomb,
Louis Slegel, L. N. Stone, J. S. Walton.

Forestry: J. R. Dilworth, *chairman,* G. H. Barnes,
W. A. Davies, W. I. West.

Home Economics: Margaret L. Fincke, *chairman,* May DuBois,
Betty Hawthorne, Helen Mulhern, Florence Petzel,
Katherine Read, Clara A. Storvick.

Pharmacy: R. S. McCutcheon, *chairman,* H. C. Forslund,
L. A. Sciuchetti.

General Studies: E. A. Yunker, *chairman,* R. F. Fuquay,
H. H. Plambeck, W. D. Wilkinson.

Graduate Minors in Nonmajor Fields: Ralph Colby, *chairman,*
G. A. Bakkum, J. L. LeMaster, M. N. Nelson,
J. A. Pfanner, K. R. Swygard.

The Graduate Council is composed of the several chairmen of the subject matter schools' graduate committees. The chairman of the school graduate committee is selected by the dean of the school for an indefinite period of time.

3. The Graduate Council meets the first and third Thursdays of each month of the academic year and on call during the summer.

4. The Graduate Council has jurisdiction over the policies and procedures of graduate work. This involves appointment of graduate committees, approval of applicants for the graduate faculty, approval of all graduate study programs, theses, new graduate courses, petitions for deviation from normal procedures, admission of graduate students, and changes in graduate policy.

5. The School Graduate Committee is composed of a member from each department of the School and these committees advise the chairman of any graduate matters that should come before the Graduate Council.

The Genetics Committee is a special committee for advising with students working toward the doctorate in genetics.

6. In order to become a member of the graduate faculty an application form is completed and approved by the department head and the dean of the school, and is presented to the Graduate Council. A graduate faculty member may be approved on a limited status or on full status. On limited status he may offer graduate courses only. The full status member, in addition to offering graduate courses in his field, also supervises graduate students including the theses and dissertations.

L. The Students

1. Baccalaureate origins of graduate students registered during the current year:

ORIGIN OF BACCALAUREATE DEGREES OF FALL TERM GRADUATE STUDENTS 1959-60

ALABAMA
University of Alabama - 1

ARIZONA
Arizona State College, Flagstaff - 2
Arizona State College, Tempe - 3
University of Arizona - 2
7

ARKANSAS
Arkansas State College - 1

CALIFORNIA
California State Polytechnic - 12
Chico State College - 2
College of the Pacific - 1
Fresno State - 8
Humboldt State - 1
Loyola University - 1
Mills College - 1
St. Marys - 1
San Francisco State - 2
San Jose State - 5
Stanford University - 4
University of Southern California - 1
U. of California, Berkeley - 13
U. of California, Davis - 2
U. of California, Los Angeles - 5
U. of California, Santa Barbara - 3
U. of California, Riverside - 1
63

COLORADO
Colorado State University - 13
University of Colorado - 2
15

DELAWARE
University of Delaware - 1

DISTRICT OF COLUMBIA
George Washington University - 1

FLORIDA
Florida State College for Women - 1
University of Florida - 1
2

30

GEORGIA
University of Georgia - 3

HAWAII
University of Hawaii - 1

IDAHO
College of Idaho - 6
Idaho State College - 5
Northwest Nazarene - 2
University of Idaho - 9
22

ILLINOIS
Monmouth College - 2
Northwestern University - 1
University of Illinois - 6
9

INDIANA
Goshen College - 1
Indiana University - 1
Purdue University - 4
State Teachers College - 1
Valparaiso University - 1
8

IOWA
Cornell College - 1
Grinnell College - 1
Iowa State - 8
Iowa State Teachers College - 1
11

KANSAS
Baker University - 1
Bethany College - 1
Kansas State University - 5
Ottawa University - 1
Southwestern College - 1
9

KENTUCKY
Asbury College - 1

MARYLAND
John Hopkins - 1
University of Maryland - 1
U. S. Naval Academy - 1
3

ORIGIN OF BACCALAUREATE DEGREES (CONTINUED)

MASSACHUSETTS	
Harvard	- 1
Mass. Inst. of Technology	- 1
Wheaton College	- 1
Williams College	- 1
	4
MICHIGAN	
Calvin College	- 1
Emmanuel College	- 1
Michigan State	- 5
University of Michigan	- 2
	9
MINNESOTA	
Concordia College	- 1
St. Cloud State College	- 1
University of Minnesota	- 5
Winona State College	- 1
	8
MISSOURI	
Central Missouri State	- 1
University of Missouri	- 3
William Jewell College	- 2
	6
MONTANA	
Carroll College	- 1
Montana State College	- 10
University of Montana	- 1
	12
NEBRASKA	
Hastings College	- 1
Nebraska State Teachers College	- 1
University of Nebraska	- 3
	5
NEVADA	
University of Nevada	- 2
NEW HAMPSHIRE	
Dartmouth College	- 1
University of New Hampshire	- 1
	2
NEW JERSEY	
Montclair State College	- 1
Rutgers College	- 2
Trenton State College	- 1
	4

NEW MEXICO	
New Mexico College of A & M	- 1
N.M. Inst. of Mining & Tech.	- 1
New Mexico State College	- 1
	3
NEW YORK	
Colgate University	- 1
College of the Sacred Heart	- 1
Cornell University	- 1
Keuka College	- 1
New York State College	- 1
New York State University	- 1
Norwich University	- 1
St. Bonaventure College	- 1
Syracuse University	- 3
	11
NORTH CAROLINA	
North Carolina State College	- 2
Woman's College	- 1
	3
NORTH DAKOTA	
North Dakota Ag. College	- 5
State Teachers College	- 1
	6
OHIO	
Bowling Green State Univ.	- 1
Cincinnati University	- 1
Kent State University	- 1
Oberlin College	- 1
Ohio State University	- 3
Miami University	- 1
	8
OKLAHOMA	
Oklahoma A. & M.	- 2
Oklahoma College for Women	- 1
University of Oklahoma	- 1
	4
OREGON	
Eastern Oregon College	- 2
George Fox College	- 2
Lewis and Clark	- 8
Linfield College	- 10
Marylhurst College	- 1
Oregon College of Education	- 2
Oregon State College	-218
Pacific University	- 4

ORIGIN OF BACCALAUREATE DEGREES (CONTINUED)

OREGON (CONTINUED)	
Portland State	- 10
Reed College	- 7
Southern Oregon College	- 2
University of Oregon	- 12
Willamette University	- 10
	289
PENNSYLVANIA	
Lehigh University	- 1
Pennsylvania State University	- 1
State Teachers College, Indiana	- 1
	3
SOUTH DAKOTA	
Black Hills Teachers College	- 1
Sioux Falls College	- 1
South Dakota School of Mines	- 1
South Dakota State College	- 5
	8
TENNESSEE	
Bucknell University	- 1
Middle Tennessee State College	- 1
University of Tennessee	- 1
	3
TEXAS	
Abilene Christian College	- 1
Midwestern University	- 1
Rice	- 2
Texas Tech.	- 1
University of Texas	- 2
	7
UTAH	
Brigham Young University	- 9
University of Utah	- 4
Utah State Ag. College	- 1
Utah State University	- 14
	28
VERMONT	
University of Vermont	- 1
VIRGINIA	
Bridgewater College	- 1
Hampton Institute	- 1
Virginia Military Institute	- 1
Virginia State College	- 1
	4

WASHINGTON	
Central College of Education	- 3
College of Puget Sound	- 2
Eastern Washington Col. of Ed	- 5
Pacific Lutheran	- 3
Seattle University	- 2
University of Washington	- 24
Walla Walla College	- 4
Wash. Missionary College	- 1
Washington State College	- 10
West. Wash. College of Ed.	- 4
Whitman College	- 1
Whitworth College	- 1
Pacific College	- 1
	61
WISCONSIN	
La Crosse State College	- 1
Wisconsin State College	- 1
University of Wisconsin	- 7
	9
WYOMING	
University of Wyoming	- 2

ORIGIN OF FOREIGN BACCALAUREATE DEGREES

AUSTRALIA	
University of Australia	- 1
University of Sydney	- 2
University of Western Australia	- 1
	4
CANADA	
McGill University	- 1
University of Alberta	- 3
University of British Columbia	- 8
University of Manitoba	- 2
University of Montreal	- 1
University of Saskatchewan	- 1
University of Toronto	- 1
	17
CEYLON	
University of Ceylon	- 2
CHILE	
University of Chile	- 2
Catholic University of Chile	- 1
	3
CHINA	
Cheng-Kung University	- 1
Chiao-Tung University	- 1
National Central University	- 1
National Chi-Nan University	- 1
National Taiwan University	- 3
Taiwan Provincial College of Ag.	- 2
	9
COLOMBIA	
University of Caldas	- 1
DENMARK	
Royal Veterinarian Ag. College	- 1
EGYPT	
University of Alexandria	- 1
GREAT BRITAIN	
University of London	- 1
Southhampton University	- 1
University of Wales	- 1
	3

INDIA	
Agra University	- 1
Assam Veterinary College	- 1
Bombay University	- 2
Bihar University	- 2
Calcutta University	- 2
Govt. Agricultural College	- 1
Gujarat University	- 1
Lucknow University	- 1
Pajna Science College	- 1
Panjab University	- 6
Poona University	- 1
University of Delhi	- 1
University of Madras	- 3
	23
IRAN	
University of Tehran	- 1
IRAQ	
University of Baghdad	- 1
IRELAND	
Dublin University	- 1
KOREA	
Chosun Christian University	- 2
Ewha University	- 1
	3
NORWAY	
University of Bergen	- 1
PHILIPPINES	
Philippines Women's Univ.	- 1
Univ. of the Philippines	- 3
	4
THAILAND	
Chulalongkorn University	- 5
Kasetsart University	- 11
Thammasat University	- 2
University of Medical Science	1
	19
TURKEY	
University of Ankara	- 2

2. A baccalaureate degree from an accredited college or university and a minimum grade point average of 2.50 are required for admission to the graduate school.

3. If a student meets the general admission requirements for the graduate school, as determined by the Office of the Registrar, the graduate dean then passes on his admission to the graduate school. If satisfactory the credentials are submitted to the departments of the major and minors, and if approved by the departments, the student is admitted to the graduate school.

If an applicant for admission to the graduate school does not comply with the general rules of admission as indicated above, a committee for the admission of graduate students may study his case and make recommendations to the graduate office for admission if certain extenuating circumstances are in evidence.

4. For the master's degree a student is considered to have been advanced to candidacy upon approval of his graduate study program. For the doctorate a student is advanced to candidacy upon satisfactory completion of written comprehensives (some departments) and oral preliminary examinations.

5. Students who have not declared themselves as candidates for the master's degree are admitted as unclassified students. Usually an adviser is assigned for the student in the field of his interest or in the field in which he would logically take a degree if and when he is admitted to work in such a field. Admission as an unclassified student does not necessarily mean that he will ever be permitted to work toward a degree.

6. The major professor of a graduate student is assigned by the department in which the student is majoring. Normally the major professor is the one who is in charge of that particular discipline in the department. Where there are two or more professors in a department who might supervise a graduate student, he is appointed by the department head.

7. Enrollments by departments and advanced degrees conferred for the last five years are shown in the following tables:

ENROLLMENTS BY DEPARTMENTS

	1959-60 F term	1959 SS	1958-59 F term	1958 SS	1957-58 F term	1957 SS	1956-57 F term	1956 SS	1955-56 F term	1955 SS
SCIENCE										
Bacteriology	18	1	17½	6	20	7½	16	3	18	1
Botany	39	10	34	7	31	4	26	3	25	9
Chemistry	107	14	93	27	88	25½	67	18	65	22
Entomology	21	4	20	4	22	4	19	5	14	5
General Science	69	81	64	56	68	23	7	27	5	23
Geology	11	2	11	3	8	3	10	5	6	7
Mathematics	41	20	33	12	23	8	23	5	19	5
Natural Resources	12	3	9	7	6	5	8	5	6	4
Oceanography	1									
Physics	34	6	21	3	21	6½	18	6	18	10
Statistics	1			1						
Zoology	27	7	28	3	16	5	19	1	15	2

ENROLLMENTS BY DEPARTMENTS (CONTINUED)

	1959-60 F term	1959 SS	1958-59 F term	1958 SS	1957-58 F term	1957 SS	1956-57 F term	1956 SS	1955-56 F term	1955 SS
AGRICULTURE										
Agricultural Economics	24	8	16	3	18	9	19	10	15	4
*Agricultural Engineering	(2)	(1)	(2)	(2)	(2)		(1)		(3)	(1)
Dairy and Animal Husbandry	14	10	14	6	14	4	10	5	14	7
Farm Crops	19	3	18	3	8	1	10	1	11	4
Fish and Game Management	19	8	18	7	23	4	28	4	24	8
Food and Dairy Technology	13	5	12½	5	12½	4	7½	2	10	5
General Agriculture	12	3	11	4	10	7	6	2	2	16
Genetics	9	5	11	6	7	3	11	4	9	1
Horticulture	6	3	6	2	5		1	1	4	1
Poultry Husbandry	2		2		2		1		3	
Range Management	2		3	1	4				2	2
Soils	23	8	21	7	20½	6½	20½	3	13	1
Veterinary Medicine			1	1	2	1			1	1

*Counted under ENGINEERING. See next page.

ENROLLMENTS BY DEPARTMENTS (CONTINUED)

	1959-60 F term	1959 SS	1958-59 F term	1958 SS	1957-58 F term	1957 SS	1956-57 F term	1956 SS	1955-56 F term	1955 SS
EDUCATION										
Agricultural Education	9	5	7	16	3	9	3	2	1	6
Business Education	4	37	4	43	2	18	1	23	4	24
Education	19	146	26	132	18	132	19	128	15	124
Guidance	12	28	4	20	4	24	4	10	5	14
Health Education	5	10	3	11	7	7	1	5	1	2
Home Economics Education	4	9	1	7	1	9		7		7
Industrial Education	6	58		63	6	53	5	51	4	49
Trade and Industrial Ed.				2						
ENGINEERING										
Agricultural Engineering	2	1	2	2	2		1		3	1
Chemical Engineering	14	4	12	5	10	2	11	3	5	2
Civil Engineering	10	2	12	3	7		8	2	5	1
Electrical Engineering	19	3	10	2	3	2	7	2	1	3
Industrial Engineering	3		3				1	1	1	1
Mechanical Engineering	13	2	21		9	1	10	2	10	4

ENROLLMENTS BY DEPARTMENTS (CONTINUED)

	1959-60 F term	1959 SS	1958-59 F term	1958 SS	1957-58 F term	1957 SS	1956-57 F term	1956 SS	1955-56 F term	1955 SS
FORESTRY										
Forest Engineering	2		4		2	1	2		1	1
Forest Management	19	4	12		14	1	5	1	11	
Forest Products	2	1	4	3	6	1	1	1	2	
HOME ECONOMICS										
Clothing and Textiles	10	8	7	15	11	17	8	23	6	14
Family Life and Home Admin.	10	9	11	8	6	10	10	5	10	7
Foods and Nutrition	8	5	6	8	8	4	5	1	3	4
General Home Economics		8	1	11		13	2	11	1	12
*Home Economics Education	1	6	1	11	3	8	1	9		11
Institution Management								1	1	

*For the Master of Home Economics degree only.

ENROLLMENTS BY DEPARTMENTS (CONTINUED)

	1959-60 F term	1959 SS	1958-59 F term	1958 SS	1957-58 F term	1957 SS	1956-57 F term	1956 SS	1955-56 F term	1955 SS
PHARMACY										
Pharmaceutical Analysis	1									
Pharmaceutical Chemistry			1		2		1		1	1
Pharmacy	1		1							
Pharmacognosy	2									
Pharmacology	2	1	1	1	1		1		1	
GENERAL STUDIES										
For M.A. (Gen. St.) degree	1					1		1		
UNCLASSIFIED STUDENTS	52	418	71	429	49	282	41	329	59	237
TOTALS	755	966	689	966	603	726	475	728	450	663

ADVANCED DEGREES CONFERRED

	1959			1958			1957			1956			1955		
	MS	MA	PhD	MS	MA	PhD	MS	MA	PhD	MS	MA	PhD	MS	MA	PhD
SCIENCE															
Bacteriology and Hygiene	5		1½	5		2½	3			6		2	2		3
Bacteriology	(5)		(1½)			(2½)	(2)			(6)		(2)	(2)		(3)
Bacteriology and Hygiene				(5)			(1)								
Botany	4	1	5			4	1		5	2		12			3
Botany	(1)		(2)			(1)	(1)			(1)					
Cytology															(1)
Plant Anatomy												(1)			
Plant Ecology									(2)			(1)			
Plant Pathology	(2)		(2)			(2)			(3)	(1)		(7)			(2)
Plant Pathology (Nematology)												(1)			
Plant Path. and Plant Phys.	(1)														
Plant Physiology												(2)			
Systematic Botany		(1)	(1)			(1)									
Chemistry	9		8	11		5	8		7	9	1	12	13		15
Analytical Chemistry	(1)		(1)	(1)			(2)		(1)	(1)		(3)	(2)		(3)
Biochemistry	(1)		(1)	(2)		(1)	(1)		(1)	(3)		(2)			(4)
Chemistry							(2)					(1)			
Forest Products Chemistry	(1)								(2)	(1)					(1)
Inorganic Chemistry				(2)		(1)				(2)		(1)	(1)		(1)
Inorganic-Analytical				(1)											
Organic Chemistry	(6)		(3)	(4)			(2)		(3)	(1)	(1)	(2)	(6)		(6)
Physical Chemistry			(3)	(1)		(3)	(1)			(1)		(3)	(4)		
Entomology	4		2	2		6	4			2		2	5		1
Entomology	(3)		(2)	(2)		(6)	(3)			(2)		(1)	(5)		(1)
Forest Entomology	(1)						(1)								
Systematic Entomology												(1)			

ADVANCED DEGREES CONFERRED (CONTINUED)

	1959			1958			1957			1956			1955		
	MS	MA	PhD	MS	MA	PhD	MS	MA	PhD	MS	MA	PhD	MS	MA	PhD
SCIENCE (CONTINUED)															
General Science	61			57			13			11			9		1
Geology	2			3			3			2			2		
Geology	(1)			(2)			(3)			(1)			(2)		
Micropaleontology	(1)														
Paleontology				(1)						(1)					
Mathematics	5	1		1	2			4		3	2	3	6		2
Algebra - Logic	(1)														
Analysis	(1)	(1)		(1)	(2)			(2)				(2)			
Analysis and Applied Math.								(1)							
Applied Mathematics												(1)			(1)
Mathematics	(3)							(1)		(3)	(2)		(6)		(1)
Natural Resources	2			5	1		3			5			2		
Physics	1	1		5		1	5		1	7	2	2	10		3
Electronics										(1)					
Physics	(1)	(1)		(5)		(1)	(5)		(1)	(6)	(2)	(2)	(10)		(3)
Zoology	4	2		1	1	1	3		2		1	3	1	3	5
Anatomy and Embryology						(1)									(1)
Cellular Biology		(1)													(1)
Natural History												(1)			
Natural History and Ecology	(1)														
Physiology		(1)													
Zoology	(3)			(1)	(1)		(3)		(2)		(1)	(2)	(1)	(3)	(3)

ADVANCED DEGREES CONFERRED (CONTINUED)

	1959			1958			1957			1956			1955		
	MS	PhD	AgM	MS	PhD	AgM	MS	PhD	AgM	MS	PhD	AgM	MS	PhD	AgM
AGRICULTURE															
Agricultural Economics	3	1		6			7	3		2	1		6		
Agricultural Marketing				1											
Dairy and Animal Husbandry	1														
Animal Husbandry	1	2		3						1			1	1	
" " (Nutrition)	1							2			1		2		
" " (Physiology)		1													
Dairy Husbandry										1					
Dairying							2	1			2				
Dairy Production							1								
Farm Crops	1			1	3		2	1		2	1		4	1	
" " (Weed Control)	1														
Fish and Game Management	3									2			7		
Game Management	1									1					
Fisheries	6			7			3			2			7		
Wildlife Management				4			3								
Food and Dairy Technology	1														
Dairy Manufacturing										1	1				
Dairy Products Industries										1					
Dairy Technology				2											
Food Technology	2	1½		1	1		2			2	3		3	2	
General Agriculture (3 fields)			4			6			4			2			7
Genetics		3		1	4		2	1			1			2	

ADVANCED DEGREES CONFERRED (CONTINUED)

	1959			1958			1957			1956			1955		
	MS	PhD	AgM	MS	PhD	AgM	MS	PhD	AgM	MS	PhD	AgM	MS	PhD	AgM
AGRICULTURE (CONTINUED)															
Horticulture		1						2		2	1			2	
Ornamental Horticulture				1											
Pomology							1								
Vegetable Crops					1										
Poultry Husbandry													1		
Range Management	2									1					
Soils	4			5	2½		4			3	3		1		
Forest Soils	1														
Veterinary Medicine	1														

ADVANCED DEGREES CONFERRED (CONTINUED)

	1959				1958				1957				1956				1955			
	MS	MA	EdM	EdD	MS	MA	EdM	EdD	MS	MA	EdM	EdD	MS	MA	EdM	EdD	MS	MA	EdM	EdD
EDUCATION																				
Agricultural Education	3		2		1		2				1								1	
Business Education			14			1	5				10				5			1	6	
Education			56	1	3		58	4	3		41	3	1		45	8½	2		53	7
Guidance	1		5	1			6	1			1	1			3	3½			1	1
Guidance and Counseling																1	1		1	
Counseling				1																
Guidance and Personnel																1				1
Home Economics Education	1								2				2				2			
Industrial Arts Education	1		13		3		8		3		14		3		11		6		14	
Health Education	1		4		1		7						1				2			

ADVANCED DEGREES CONFERRED (CONTINUED)

	1959			1958				1957			1956				1955		
	MS	MA	PhD	MS	MA	EE	PhD	MS	MA	PhD	MS	MA	CE	PhD	MS	MA	PhD
ENGINEERING																	
Agricultural Engineering	1							1			3						
Chemical Engineering	4			3			2	3		1	1			1			
Civil Engineering								2					1				1
Highway Engineering								1									
Hydraulic Engineering	1			1				1						1	1		
Sanitary Engineering	1																
Structural Engineering	1			2							1				2		
Electrical Engineering	2			2		2								1			
Electrical Power				1													
Control Engineering				1							2						
Power Engineering											2				2		
Mechanical Engineering	6			4				3			4				4		
Aeronautical Engineering	4																
Metallurgical Engineering																	1
Industrial Engineering											1				2		

FORESTRY	MS	MF	MS	MF	MS	MF	MS	MF	MS	MF
Forest Engineering		1	1	1		1		1		
Forest Management	2	2	7	9	3	1	2	4	1	4
Forest Products	1	1	2					1		

ADVANCED DEGREES CONFERRED (CONTINUED)

	1959			1958			1957			1956			1955		
	MS	PhD	MHEc	MS	PhD	MHEc	MS	PhD	MHEc	MS	PhD	MHEc	MS	PhD	MHEc
HOME ECONOMICS															
Clothing and Textiles	4			4		3½	5			3		2	2		2
Home Furnishings						1									
Family Life and Home Adm.												1			1
Child Development				1		1									
Family Life					1	½	1			1		1	1		
Housing									1						
Foods and Nutrition	1			1							1				
Nutrition							1	1							
Institution Management							1								
General Home Economics		1													1
Home Economics Education		1			1						1				3

ADVANCED DEGREES CONFERRED (CONTINUED)

	1959	1958	1957	1956	1955
	MS	MS	MS	MS	MS
PHARMACY					
Pharmaceutical Analysis					1
Pharmacology	1				
Pharmacognosy				1	
	MA	MA	MA	MA	MA
GENERAL STUDIES	3	2	2		4
TOTAL DEGREES CONFERRED	303	317	211	248	265
Master's	270	274	176	179	213
Doctor's	33	41	35	68	52
Engineer (Professional)		2		1	

8. Staff members of Oregon State College holding rank above that of instructor cannot receive advanced degrees from Oregon State College. Full-time staff members may register normally for not more than 3 hours per term. As many as 5 hours may be permitted provided registration is not for more than one course. Approval for registration must be obtained from the Executive Office.

9. Normally a student is not permitted to do all his work, both undergraduate and graduate, at Oregon State for the Ph.D. degree. In certain special cases, if there is a change in major or if the research work cannot be done at another institution, a student may be permitted to do all of his work at Oregon State. It is possible upon petition, however, to take bachelors, masters, and doctors degrees at Oregon State, provided the student has done work on other campuses. In some instances, students may be permitted to take all degrees at O.S.C. with the stipulation that he spend a certain amount of time at another institution working with a specific professor.

GRADUATE AND RESEARCH ASSISTANTSHIPS AND FELLOWSHIPS

Department	Teaching Positions on Dept. Funds	Research Assts. & Fellows		
		Inst. Funds	Non-Inst. Funds	
			College	Exp. Sta.
Agricultural Economics	--	--	--	9
Dairy and Animal Husb.	--	--	2	13
Fish and Game Management	2	--	5	7
Poultry	--	--	--	2
Farm Crops	--	--	--	1
Horticulture	--	--	--	3
Food and Dairy Technology	--	--	3	7
Soils	1	--	--	11
Agricultural Engineering	--	--	--	1
Chemical Engineering	3	--	4	--
Civil Engineering	1	--	1	--
Electrical Engineering	6	--	--	--
Industrial Engineering	1	--	--	--
Mechanical Engineering	2	6	--	--
Forest Management	--	--	--	1
Clothing and Textiles	2	--	--	--
Foods and Nutrition	--	--	--	3
Family Life	5	--	--	--
Pharmacy	3	--	--	--
Physical Ed. for Men	2	1	--	--
Bacteriology	5	--	4	6
Botany	3	--	1	11
Chemistry	38	1	32	2
Entomology	--	--	1	10
Geology	5	--	--	--
Mathematics	28	--	2	--
Natural Resources	4	--	--	--
Physics	14	--	2	--
Statistics	1	--	--	--
Zoology	11	--	2	--
General Science	5	--	--	--
Total	142	8	59	87

11.

Position	Full-time Equivalent	Percentage of Full-time Study	Stipend
Graduate Assistantship	.30 (9 months)	.75	$1400 - 1800
Research Assistantship	.30	.75	$1400 - 1800
Fellowship (Teaching)	.30	.75	$1800 - 2000
Research Fellowship	.30	.75	$1800 - 2000
Experiment Station Assistantship	.50 (12 months)	.75	$1800 - 3240
Fellowship	.50 (12 months)	.75	$1800 - 3240

12. Postdoctoral fellows during past five years:

Bacteriology	5
Farm Crops	1
Chemistry	5
Dairy & An. Hust.	1
Forestry	2